1	INTEGRATE	TRANSMITTER	SURVEYING	WHILE
2	BORING (SW	B) ENTRENCHING	G POWERING	DEVICE
3	FOR THE CON'	TINUATION OF	A GUIDED B	ORE HOLE

ABSTRACT OF THE DISCLOSURE

A bottom hole assembly for horizontal directional drilling that improves the accuracy of surveying while boring by enabling the progress of the bore to be monitored and tracked with the aid of a sonde. In one embodiment the sonde is received in the wall of a housing area of a mud motor surrounding the bearing mandrel, in another embodiment the sonde is carried in the wall of a collar surrounding the bearing mandrel housing, and in an additional embodiment the sonde is carried in an adapter between the bearing mandrel and the bit.